

SEQUENCE LISTING

<110> Weiner, Howard L.
Maron, Ruth
Libby, Peter

<120> SUPPRESSION OF VASCULAR DISORDERS BY
MUCOSAL ADMINISTRATION OF HEAT SHOCK PROTEIN PEPTIDES

<130> B0801/7202 (AWS)

<150> US 60/189,855

<151> 2000-03-15

<160> 3

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 540

<212> PRT

<213> M. tuberculosis

<400> 1

Met	Ala	Lys	Thr	Ile	Ala	Tyr	Asp	Glu	Glu	Ala	Arg	Arg	Gly	Leu	Glu
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Arg	Gly	Leu	Asn	Ala	Leu	Ala	Asp	Ala	Val	Lys	Val	Thr	Leu	Gly	Pro
			20					25					30		
Lys	Gly	Arg	Asn	Val	Val	Leu	Glu	Lys	Lys	Trp	Gly	Ala	Pro	Thr	Ile
		35					40					45			
Thr	Asn	Asp	Gly	Val	Ser	Ile	Ala	Lys	Glu	Ile	Glu	Leu	Glu	Asp	Pro
	50					55					60				
Tyr	Glu	Lys	Ile	Gly	Ala	Glu	Leu	Val	Lys	Glu	Val	Ala	Lys	Lys	Thr
65					70					75					80
Asp	Asp	Val	Ala	Gly	Asp	Gly	Thr	Thr	Thr	Ala	Thr	Val	Leu	Ala	Gln
				85					90					95	
Ala	Leu	Val	Arg	Glu	Gly	Leu	Arg	Asn	Val	Ala	Ala	Gly	Ala	Asn	Pro
			100					105					110		
Leu	Gly	Leu	Lys	Arg	Gly	Ile	Glu	Lys	Ala	Val	Glu	Lys	Val	Thr	Glu
			115				120					125			
Thr	Leu	Leu	Lys	Gly	Ala	Lys	Glu	Val	Glu	Thr	Lys	Glu	Gln	Ile	Ala
	130					135					140				
Ala	Thr	Ala	Ala	Ile	Ser	Ala	Gly	Asp	Gln	Ser	Ile	Gly	Asp	Leu	Ile
145					150					155					160
Ala	Glu	Ala	Met	Asp	Lys	Val	Gly	Asn	Glu	Gly	Val	Ile	Thr	Val	Glu
			165					170						175	
Glu	Ser	Asn	Thr	Phe	Gly	Leu	Gln	Leu	Glu	Leu	Thr	Glu	Gly	Met	Arg
			180					185					190		
Phe	Asp	Lys	Gly	Tyr	Ile	Ser	Gly	Tyr	Phe	Val	Thr	Asp	Pro	Glu	Arg
		195					200					205			
Gln	Glu	Ala	Val	Leu	Glu	Asp	Pro	Tyr	Ile	Leu	Leu	Val	Ser	Ser	Lys
	210					215					220				
Val	Ser	Thr	Val	Lys	Asp	Leu	Leu	Pro	Leu	Leu	Glu	Lys	Val	Ile	Gly
225					230					235					240
Ala	Gly	Lys	Pro	Leu	Leu	Ile	Ile	Ala	Glu	Asp	Val	Glu	Gly	Glu	Ala
				245					250					255	
Leu	Ser	Thr	Leu	Val	Val	Asn	Lys	Ile	Arg	Gly	Thr	Phe	Lys	Ser	Val
			260					265						270	

Pro Val Thr Thr Pro Glu Glu Ile Ala Gln Val Ala Thr Ile Ser Ala
 165 170 175
 Asn Gly Asp Lys Glu Ile Gly Asn Ile Ser Asp Ala Met Lys Lys
 180 185 190
 Val Gly Arg Lys Gly Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn
 195 200 205
 Asp Glu Leu Glu Ile Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile
 210 215 220
 Ser Pro Tyr Phe Ile Asn Thr Ser Lys Gly Gln Lys Cys Glu Phe Gln
 225 230 235 240
 Asp Ala Tyr Val Leu Ser Glu Lys Lys Ile Ser Ser Ile Gln Ser
 245 250 255
 Ile Val Pro Ala Leu Glu Ile Ala Asn Ala His Arg Lys Pro Leu Val
 260 265 270
 Ile Ile Ala Glu Asp Val Asp Gly Glu Ala Leu Ser Thr Leu Val Leu
 275 280 285
 Asn Arg Leu Lys Val Gly Leu Gln Val Val Ala Val Lys Ala Pro Gly
 290 295 300
 Phe Gly Asp Asn Arg Lys Asn Gln Leu Lys Asp Met Ala Ile Ala Thr
 305 310 315 320
 Gly Gly Ala Val Phe Gly Glu Glu Gly Leu Thr Leu Asn Leu Glu Asp
 325 330 335
 Val Gln Pro His Asp Leu Gly Lys Val Gly Glu Val Ile Val Thr Lys
 340 345 350
 Asp Asp Ala Met Leu Leu Lys Gly Lys Gly Asp Lys Ala Gln Ile Glu
 355 360 365
 Lys Arg Ile Gln Glu Ile Ile Glu Gln Leu Asp Val Thr Thr Ser Glu
 370 375 380
 Tyr Glu Lys Glu Lys Leu Asn Glu Arg Leu Ala Lys Leu Ser Asp Gly
 385 390 395 400
 Val Ala Val Leu Lys Val Gly Gly Thr Ser Asp Val Glu Val Asn Glu
 405 410 415
 Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val
 420 425 430
 Glu Glu Gly Ile Val Leu Gly Gly Cys Ala Leu Leu Arg Cys Ile
 435 440 445
 Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
 450 455 460
 Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
 465 470 475 480
 Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
 485 490 495
 Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Asn
 500 505 510
 Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Val Val Arg Thr Ala
 515 520 525
 Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val
 530 535 540
 Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp Pro Gly Met Gly Ala
 545 550 555 560
 Met Gly Gly Met Gly Gly Met Gly Gly Met Phe
 565 570

<210> 3
 <211> 544
 <212> PRT
 <213> C. pneumoniae

<400> 3

Met	Ala	Ala	Lys	Asn	Ile	Lys	Tyr	Asn	Glu	Glu	Ala	Arg	Lys	Lys	Ile	1	5	10	15
His	Lys	Gly	Val	Lys	Thr	Leu	Ala	Glu	Ala	Val	Lys	Val	Thr	Leu	Gly	20	25	30	
Pro	Lys	Gly	Arg	His	Val	Val	Ile	Asp	Lys	Ser	Phe	Gly	Ser	Pro	Gln	35	40	45	
Val	Thr	Lys	Asp	Gly	Val	Thr	Val	Ala	Lys	Glu	Ile	Glu	Leu	Glu	Asp	50	55	60	
Lys	His	Glu	Asn	Met	Gly	Ala	Gln	Met	Val	Lys	Glu	Val	Ala	Ser	Lys	65	70	75	80
Thr	Ala	Asp	Lys	Ala	Gly	Asp	Gly	Thr	Thr	Ala	Thr	Val	Leu	Ala		85	90	95	
Glu	Ala	Ile	Tyr	Ser	Glu	Gly	Leu	Arg	Asn	Val	Thr	Ala	Gly	Ala	Asn	100	105	110	
Pro	Met	Asp	Leu	Lys	Arg	Gly	Ile	Asp	Lys	Ala	Val	Lys	Val	Val	Val	115	120	125	
Asp	Glu	Leu	Lys	Lys	Ile	Ser	Lys	Pro	Val	Gln	His	His	Lys	Glu	Ile	130	135	140	
Ala	Gln	Val	Ala	Thr	Ile	Ser	Ala	Asn	Asn	Asp	Ser	Glu	Ile	Gly	Asn	145	150	155	160
Leu	Ile	Ala	Glu	Ala	Met	Glu	Lys	Val	Gly	Lys	Asn	Gly	Ser	Ile	Thr	165	170	175	
Val	Glu	Glu	Ala	Lys	Gly	Phe	Glu	Thr	Val	Leu	Asp	Val	Val	Glu	Gly	180	185	190	
Met	Asn	Phe	Asn	Arg	Gly	Tyr	Leu	Ser	Ser	Tyr	Phe	Ser	Thr	Asn	Pro	195	200	205	
Glu	Thr	Gln	Glu	Cys	Val	Leu	Glu	Asp	Ala	Leu	Ile	Leu	Ile	Tyr	Asp	210	215	220	
Lys	Lys	Ile	Ser	Gly	Ile	Lys	Asp	Phe	Leu	Pro	Val	Leu	Gln	Gln	Val	225	230	235	240
Ala	Glu	Ser	Gly	Arg	Pro	Leu	Leu	Ile	Ile	Ala	Glu	Glu	Ile	Glu	Gly	245	250	255	
Glu	Ala	Leu	Ala	Thr	Leu	Val	Val	Asn	Arg	Leu	Arg	Ala	Gly	Phe	Arg	260	265	270	
Val	Cys	Ala	Val	Lys	Ala	Pro	Gly	Phe	Gly	Asp	Arg	Arg	Lys	Ala	Met	275	280	285	
Leu	Glu	Asp	Ile	Ala	Ile	Leu	Thr	Gly	Gly	Gln	Leu	Val	Ser	Glu	Glu	290	295	300	
Leu	Gly	Met	Lys	Leu	Glu	Asn	Thr	Thr	Leu	Ala	Met	Leu	Gly	Lys	Ala	305	310	315	320
Lys	Lys	Val	Ile	Val	Thr	Lys	Glu	Asp	Thr	Thr	Ile	Val	Glu	Gly	Leu	325	330	335	
Gly	Asn	Lys	Pro	Asp	Ile	Gln	Ala	Arg	Cys	Asp	Asn	Ile	Lys	Lys	Gln	340	345	350	
Ile	Glu	Asp	Ser	Thr	Ser	Asp	Tyr	Asp	Lys	Glu	Lys	Leu	Gln	Glu	Arg	355	360	365	
Leu	Ala	Lys	Leu	Ser	Gly	Gly	Val	Ala	Val	Ile	Arg	Val	Gly	Ala	Ala	370	375	380	
Thr	Glu	Ile	Glu	Met	Lys	Glu	Lys	Lys	Asp	Arg	Val	Asp	Asp	Ala	Gln	385	390	395	400
His	Ala	Thr	Ile	Ala	Ala	Val	Glu	Glu	Gly	Ile	Leu	Pro	Gly	Gly	Gly	405	410	415	
Thr	Ala	Leu	Val	Arg	Cys	Ile	Pro	Thr	Leu	Glu	Ala	Phe	Leu	Pro	Met	420	425	430	
Leu	Ala	Asn	Glu	Asp	Glu	Ala	Ile	Gly	Thr	Arg	Ile	Ile	Leu	Lys	Ala	435	440	445	
Leu	Thr	Ala	Pro	Leu	Lys	Gln	Ile	Ala	Ser	Asn	Ala	Gly	Lys	Glu	Gly	450	455	460	
Ala	Ile	Ile	Cys	Gln	Gln	Val	Leu	Ala	Arg	Ser	Ala	Asn	Glu	Gly	Tyr	465	470	475	480

Asp	Ala	Leu	Arg	Asp	Ala	Tyr	Thr	Asp	Met	Ile	Asp	Ala	Gly	Ile	Leu
				485					490					495	
Asp	Pro	Thr	Lys	Val	Thr	Arg	Ser	Ala	Leu	Glu	Ser	Ala	Ala	Ser	Ile
			500					505					510		
Ala	Gly	Leu	Leu	Leu	Thr	Thr	Glu	Ala	Leu	Ile	Ala	Asp	Ile	Pro	Glu
		515					520					525			
Glu	Lys	Ser	Ser	Ser	Ala	Pro	Ala	Met	Pro	Ser	Ala	Gly	Met	Asp	Tyr
	530					535					540				

60560 546060